

Project Profile

Product:- : **Stretcher Trolley**

Quality Standard : IS: 4035-1967(R2001)

Production Capacity (PA) : Qty. - 1200 Nos.

Yearly Turnover : Value Rs. 204 Lakhs.

Month & Year of Preparation : June 2020

Prepared By :

METALLURGY DIVISION

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INTRODUCTION



Stretchers. A stretcher, also referred to as a “gurney” or a “patient trolley,” is a medical device upon which a patient lies for transportation. Stretcher Trolleys are generally made of anti-bacterial or anti-microbial properties (which most hospital equipment are made of), but the Stretcher Trolley manufacturers do make them the way other beds are made.

PRODUCTS AND ITS USE

Stretcher Trolleys are made of steel & Stretcher Trolleys are generally made of anti-bacterial or anti-microbial properties. These beds are generally used in transportation of patients in Govt. Hospital, Private Hospital as well as Nursing homes etc.

Basically this beds is more effective for staff use:

1. Stretcher Trolleys are specially made for patient’s extra comfort, and easy to and for transfer of emergency staff, hospital wards, OT staff, etc.
2. They are designed in such a way that stretcher bed can be detached easily.
3. They are equipped with trusted actuators and control systems.
4. Spare parts are highly durable.

MARKET:-

The demands for Stretcher Trolleys are increasing day by day due to the following reasons:

1. Increase the number of Hospitals in private sector& their expansion
2. Increase in number of private & Government nursing homes & their expansion.

The Government is also encouraging new hospitals & nursing homes in

private sectors in order to increase treatment facilities in accordance with the development in public health sector & as such it is likely to be a steady increase in the demand for hospital furniture. However, the growth rate is expected to be more than 10% to 15% per year and as such it may be ideal for the existing steel furniture manufacturer units to take up this activity for not only as diversification but also better capacity utilization by installing a few balancing equipments.

The productivity of your staff definitely impacts patient care and revenue generation. The better the patient care, the higher the patient satisfaction. Hospital staff is able to give their best when they have good quality furniture and medical equipment at their disposal.

BASIS AND PRESUMPTION

This project is based on single shift basis with 8 hours and 300 working days in a year. The unit is proposed to be started in own building. Costs of machinery, equipment, raw material indicated in this report refer to a particular make and approximately to those prevailing at the time of preparation of this profile and it is presumed that these rates are likely to vary from supplier to supplier and place to place. Cost of installation and electrification of plant and machinery is taken @ 10% of its cost. The interest rate is taken @ 12%.

IMPLEMENTATION SCHEDULE

Time period required for executing the project from preparation of project report to starting the trial run production will be 8 months period approximately. Considering that some of the many activities may be overlapping, the project implementation will take a total period of Six months approximately for starting the actual production.

TECHNICAL ASPECTS

Process of Manufacturing

Raw materials like all type of iron angle, pipe, thickness of pipe (difference between internal and outer dimension), quality of castor wheels and also check condition of nut bolt are checked for their quality.

The basic operations involved in the manufacturing of adjustable beds are as follows:

- i. Cutting & bending of pipes
- ii. Cutting of strips
- iii. Welding& Riveting
- iv. Grinding
- v. Assembly of wheel mechanism
- vi. Painting& baking

QUALITY SPECIFICATION

Stretcher Trolleys

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations 1967 (R2001) for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification license/certificate.

1) PRODUCTION CAPACITY PER ANNUM

- i) Quantity = 1200 nos.
- ii) Value = 204.0 lakhs

2) APPROXIMATE POWER REQUIREMENT

This industry is not a large power consuming industry; however maximum care should be taken in utilization of electrical energy.

3) POLLUTION CONTROL

This industry does not involve in generation of pollution.

4) ENERGY CONSERVATION

Power requirement is very low, even then energy can be saved by proper housekeeping.

Financial Aspects:-

No.	Particulars			Amount in Rs.
(a)	Land and Building (200 Sq. Mts build up shed Rented) (Per Month)			20,000/-
(b)	Machine & Equipment			
S.No.	Name of machine	Qty.	Rate (Rs.)	Amount(Rs.)
1	Pipe bending machine hand operated with fixtures locally fabricated.	1 Nos.	50,000/-	50,000/-
2	Arc welding set	1 Set	50,000/-	50,000/-
3	Gas Cutting set with torch, regulators etc.	1 set	40,000/-	40,000/-
4	Bench drill machine 13 mm capacity	1No.	25,000/-	25,000/-
5	Portable drilling machine 13 mm capacity	1 No.	20,000/-	20,000/-
6	Flexible shaft grinder 150 mm Wheels	1 No.	10,000/-	10,000/-
7.	Double ended bench grinder 300 mm sizes	1 No.	20,000/-	20,000/-
8.	Hand shearing machine 3 mm capacity	1 No.	10,000/-	10,000/-
9.	Baking oven 2.5 x 2 mts. X 2mts. Size 20 Kw capacity.	1 No.	70,000/-	70,000/-
10.	Hand press No. 4	2 Nos.	7,500/-	15,000/-
11.	Cleaning, pickling, phosphating tanks 2.5 x 2 x 2 Mts	-	-	70,000/-
12.	Compressor with spray gun unit for painting	1 No.	20,000/-	20,000/-
13.	Riveting M/c portable type electric operated	1 No.	25,000/-	25,000/-
14.	Hand Tools, instruments etc	--	--	20,000/-
16.	Other Misc. equipments	--	--	50,000/-
17.	Electrification & Installation @10 % cost of machinery	--	--	49,500/-
18.	Pre- operative expenses	--	--	50,000/-
Total Amount				5,94,500/-

(c) Raw materials Per Month

S.N	Description	Unit	Qty.	Rate	Value In Rs.
1	M.S.Tubes 38.10 mm OD x 1.6 mm/1.22mm thick	MT	1.25	70,000/-	87,500/-
2	M.S.Tubes 25.40 mm OD x 1.6 mm/1.22mm thick	MT	1.25	75,000/-	93,750/-
3	Resin Sheet	Mtr	400	150/-	60,000/-
4	M.S. Strips 1.25 mm x 25 mm	MT	3.25	65,000/-	2,11,250/-
5	Castor wheels	Nos	3000	200/-	6,00,000/-
6	Nuts, Bolts, Screws, Washers, Flats, Rubber items & paint etc.	Nos	5000	20/-	1,00,000/-
Total					11,52,500/-

(d) Personnel (Salary & Wages per Month)

No	Designation	No	Salary/Month	Total Salary in Rs.
2	Supervisor	1	25,000/-	25,000/-
3	Skill Labour	4	20,000/-	80,000/-
4	Un skilled Labor	7	15,000/-	1,05,000/-
Total				2,10,000/-

(e) Utilities per Month

No.	Description	Rate	Qty.	Value (Rs.)
1	Power	Rs. 6.25/Unit	4000 Units	25,000/-
2	Lubricants			5,000/-
3	Water			5,000/-
Total				35,000/-

(f) Other Contingency expenses per month

No.	Description	Quantity	Value (Rs.)
1	Rent	-	20,000/-
2	Postage & Stationery	-	5,000/-
3	Telephone	-	3,000/-
4	Repair & Maintenance	-	30,000/-

5	Insurance @ 2% of Machinery & Equipment Cost	-	9,900/-
6	Marketing & Traveling Expenses	-	15,000/-
7	Other Misc. Expenses	-	10,000/-
		Total	92,900/-

- (g) Working capital for one Month (c+d+e+f) : 14,90,400/-
(h) Working capital for three Month : 44,71,200/-
(i) Total capital investment (b+h) : 50,65,700/-

Machinery Utilization

Capacity utilization is considered as 75% of installed capacity

FINANCIAL ANALYSIS

a) Cost of Production (Per Year)

No.	Description	Value (Rs.)
01.	Raw & Packing Materials	1,38,30,000/-
02.	Salary & Wages	25,20,000/-
03.	Utilities	4,20,000/-
04.	Other Expenses	11,14,800/-
05.	Depreciation on Machinery & Equipments @ 10% p.a.	49,500/-
06.	Interest on borrowed capital @ 12 % p.a.	6,07,884/-
		1,85,42,184/-
	Or Say	1,85,42,000/-

b) Turn over (Per Year)

Item	Qty	Rate	Value In Rs.
Stretcher Trolleys	1200	17,000/-	2,04,00,000/-

c) Net Profit per Year

$$\text{Rs. } 2,04,00,000/- - 1,85,42,000/- = 18,58,000/-$$

d) Net Profit Ratio

$$\frac{\text{Net Profit X 100}}{\text{Total Turn over}}$$

$$\frac{18,58,000/- \text{ X } 100}{2,04,00,000/-} = 9.1\%$$

e) Rate of Return

$$\frac{\text{Net Profit X 100}}{\text{Total Capital Investment}}$$

$$\frac{18,58,000/- \text{ X } 100}{50,65,700} = 36.68\%$$

f) Break Even point

Fixed Cost

	Rs.
a) Total Depreciation@10% p.a.	: 49,500/-
b) Total Interest @ 12% p.a	: 6,07,884/-
c) Salary @ 40%	: 10,08,000/-
d) Other Expenses @ 40%	: 4,45,920/-
e) Utility @ 40%	: 1,68,000/-
Total	: 22,79,304/-

$$\begin{aligned} \text{B.E.P.} &= \frac{(\text{Fixed cost x 100})}{(\text{Fixed cost} + \text{Profit})} \\ &= \frac{22,79,304/- \text{ X } 100}{22,79,304/- + 18,58,000/-} \\ &= \frac{22,79,30,400/-}{41,37,304} \\ &= \mathbf{55.1\%} \end{aligned}$$

Machine & equipment Supplier

1. **Umiya Industries**
GIDC Naroda, Ahmedabad, Gujarat 382330
Phone: 079 2282 0709
2. **Adinath Equipments Pvt. Ltd**
FF-11/12/13, Dinubhai Estate, near Annapurna Restaurant,
TrikampuraPatiya, GIDC Vatwa, Ahmedabad, Gujarat 382445
Phone: 099989 57744
3. **Yantralink Machine Tools**
14, Jagnath Estate, Cross Rd, opposite Gujarat Bottling,
Rakhial, Ahmedabad, Gujarat 380023
Phone: 094091 70703

Raw Material Supplier

- 1) **Ahmedabad Steel Craft**
401, 4th Floor, 637 Complex, Panchvati 2nd Lane, Near Suryarath
Complex, GulbaiTekra Rd, opposite Patel Society, GulbaiTekra,
Ahmedabad, Gujarat 380006
Phone: 079 2640 1996
- 2) **Shreeji Wheels And Castors Industries**
C/4, Sumel 7, Cross Road, Soninichali, Rakhial,
Ahmedabad, Gujarat 380023
Phone: 099780 55111
- 3) **SPL FASTENERS PVT LTD**
C-18, Sarthi Complex, Opposite Navgujarat Petrol Pump,
Jashodanagar Cross Road, near Ashirwad Restaurant,
Jashoda Nagar, Ahmedabad, Gujarat 382445
Phone: 079 3042 9008